

FORM PTO-1449 (Modified)
U.S. Department of Commerce, Patent and Trademark Office

Docket No.

Serial No.

IB-1632

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use several sheets if necessary)

Applicant

Ronald P. Reade et al.

Filing Date

Group

Herewith

Unknown

jc825 U.S. PTO
09/739391
12/15/00

U.S. Patent Documents

*Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
	AA	6,060,375	5/9/00	Owyang et al.	438	585	7/31/96
	AB	5,872,080	2/16/99	Arendt et al.	505	238	4/19/95
	AC	5,650,378	7/22/97	Iijima et al.	505	473	8/3/95
	AD	5,432,151	7/11/95	Russo et al.	505	474	7/12/93
	AE						
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Foreign Patent Documents

							Translation	
		Document Number	Date	Country	Class	Subclass	Yes	No
	AL							
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OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

	AR	Berdahl, P., et al., "Angular Magnetoresistance Provides Texture Information on High- T_c Conductors", <u>Physica C</u> , 195, 1992, pp. 93-102.
	AS	Bradley, Mark R., et al., "Theory of Thin-Film Orientation by Ion Bombardment during Deposition", <u>J. Appl. Phys.</u> 60 (12), 15 December 1986, pp. 4160-4164.
	AT	Dinos, D., et al., "Superconducting Transport Properties of Grain Boundaries in $YBa_2Cu_3O_x$ Bicrystals", <u>Physical Review B</u> , Vol. 41, No. 7, March 1, 1990, pp. 4038-4049.

Examiner

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3/20/00

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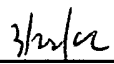
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Foreign Patent Documents

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	BL							
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OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

	BR	Dobrev, D., "Ion-Beam-Induced Texture Formation in Vacuum-Condensed Thin Metal Films", <u>Thin Solid Films</u> 92, 1982, pp. 41-53.
	BS	Fork, D.K., et al., "High Critical Currents in Strained Epitaxial YBa ₂ Cu ₃ O _{7-x} on Si", <u>Appl. Phys. Lett.</u> 57 (11), 10 September 1990, pp. 1161-1163.
	BT	Garrison, S.M., et al., "Observation of Two In-Plane Epitaxial States in YBa ₂ Cu ₃ O _{7-x} Films on Yttria-Stabilized ZrO ₂ ", <u>Appl. Phys. Lett.</u> 58 (19), 13 May 1991, pp. 2168-2170.

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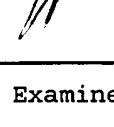
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Foreign Patent Documents

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	CL							
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OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

	CR	Iijima, Y., et al., "Biaxially Aligned YSZ Buffer Layer on Polycrystalline Substrates", paper prepared for Proceedings of the Fourth International Symposium on Superconductivity, Tokyo, Japan, October 14-17, 1991, pp. 1-4.
	CS	Iijima, Y., et al., "In-Plane Aligned YBa ₂ Cu ₃ O _{7-x} Thin Films Deposited on Polycrystalline Metallic Substrates", <u>Appl. Phys. Lett.</u> 60 (6), 10 February 1992, pp. 769-771.
	CT	Jia, Q.X., et al., "Sputter Deposition of YBa ₂ Cu ₃ O _{7-x} Films on Si at 500°C with Conducting Metallic Oxide as a Buffer Layer" <u>Appl. Phys. Lett.</u> 57 (3), 16 July 1990, pp. 304-306.

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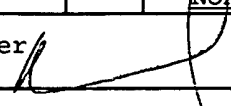
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Foreign Patent Documents

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	DL							
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	DR	Kumar, Ashok, et al., "Synthesis of Superconducting YBa ₂ Cu ₃ O _{7-x} Thin Films on Nickel-Based Superalloy Using In Situ Pulsed Laser Deposition, <u>Appl. Phys. Lett.</u> 57 (24), 10 December 1990, pp. 2594-2596.
	DS	Lioutas, Ch.B., et al., "Phase Transformation of Hydrogen Free Amorphous Carbon Films under Ion Beam Bombardment", <u>Carbon</u> , Vol. 36, No. 5-6, 1998, pp. 545-548.
	DT	Mizutani, T., "Compositional and Structural Modifications of Amorphous SiO ₂ by Low-Energy Ion and Neutral Beam Irradiation", <u>Journal of Non-Crystalline Solids</u> 181, 1995, pp. 123-134.

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OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

	ER	Narumi, E., et al., "Critical Current Density Enhancement in $\text{YBa}_2\text{Cu}_3\text{O}_{6.8}$ Films on Buffered Metallic Substrates", <u>Appl. Phys. Lett.</u> 58 (11), 18 March 1991, pp. 1202-1204.
	ES	Norton, David P., et al., "High Critical Current Densities in $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$ Films on Polycrystalline Zirconia", <u>Appl. Phys. Lett.</u> 57 (11), 10 September 1990, pp. 1164-1166.
	ET	Pangal, K. et al., "Integration of Amorphous and Polycrystalline Silicon Thin-Film Transistors Through Selective Crystallization of Amorphous Silicon", <u>Appl. Phys. Lett.</u> 75 (14), 4 October 1999, pp. 2091-2093.
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	FL							
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	FR	Reade, R.P., et al., "Characterization of Y-Ba-Cu-O Thin Films and Yttria-Stabilized Zirconia Intermediate Layers on Metal Alloys Grown by Pulsed Laser Deposition, <u>Appl. Phys. Lett.</u> 59 (6), 5 August 1991, pp. 739-741.
	FS	Reade, R.P., et al., "Laser Deposition of Biaxially Textured Yttria-Stabilized Zirconia Buffer Layers on Polycrystalline Metallic Alloys for High Critical Current Y-Ba-Cu-O Thin Films", <u>Appl. Phys. Lett.</u> 61 (18), 2 November 1992, pp. 2231-2233.
	FT	Russo, R.E., et al., "Fabrication and Characterization of Y-Ba-Cu-O Thin-Films on Stainless-Steel Substrates", submitted by authors for publication in <u>High Temperature Superconducting Compounds II</u> , edited by S.H. Whang (Minerals, Metals, and Materials Society, Warrendale), 1990, pp. 1-6.

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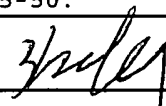
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OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

	AR	Russo, R.E., et al., "Metal Buffer Layers and Y-Ba-Cu-O Thin-Films on Pt and Stainless-Steel Using Pulsed Laser Deposition", <u>J. Appl. Phys.</u> 68 (3), 1 August 1990, pp. 1354-1356.
	AS	Tiwari, P., et al., "In Situ Single Chamber Laser Processing of YBa ₂ Cu ₃ O _{7-x} Superconducting Thin Films on Si (100) with Yttria-Stabilized Zirconia Buffer Layers", <u>Appl. Phys. Lett.</u> 57 (15), 8 October 1990, pp. 1578-1580.
	AT	Van Wyk, G.N., "The Dependence of Ion Bombardment Induced Preferential Orientation on the Direction of the Ion Beam", <u>Radiation Effects Letters</u> , Vol. 57, 1980, pp. 45-50.

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OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

AR	Van Wyk, G.N., et al., "Ion Bombardment Induced Preferential Orientation in Polycrystalline Cu Targets", <u>Radiation Effects</u> , Vol. 38, 1978, pp. 245-247.
AS	Wang, C.P. et al., "Deposition of In-Plane Textured MgO on Amorphous Si ₃ N ₄ Substrates by Ion-Beam-Assisted Deposition and Comparisons with Ion-Beam-Assisted Deposited Yttria-Stabilized-Zirconia", <u>Appl. Phys. Lett.</u> 71 (20), 17 November 1997, pp. 2955-2957.
AT	

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